

Title (en)

TORQUE RESPONSE CONTROL APPARATUS FOR ELECTRIC MOTOR OF VEHICLE

Title (de)

VORRICHTUNG ZUR STEUERUNG EINER DREHMOMENTREAKTION FÜR EINEN FAHRZEUGELEKTROMOTOR

Title (fr)

APPAREIL DE COMMANDE DE RÉPONSE DE COUPLE POUR MOTEUR ÉLECTRIQUE DE VÉHICULE

Publication

EP 2578439 B1 20210217 (EN)

Application

EP 11789538 A 20110414

Priority

- JP 2010123779 A 20100531
- JP 2011059251 W 20110414

Abstract (en)

[origin: EP2578439A1] When a vehicle speed VSP is low, a torque response determining coefficient K is made small to lower a motor torque response, and as the vehicle speed VSP increases, the torque response determining coefficient K is increased to increase the motor torque response. With this, a delicate driving manipulation for a delicate driving power control required in a lower speed running is easily achieved, and a torque increase is rapidly made in a higher speed running, so that a sense of acceleration required in such higher speed running is fulfilled. In a lower load condition where an accelerator position APO is low, the torque response determining coefficient K is made small to lower the motor torque response, and as the load increases, the torque response determining coefficient K is increased to increase the motor torque response. With this, a delicate driving manipulation for a delicate driving power control required in a lower load running is easily achieved, and a torque increase is rapidly made in a higher load running, so that a sense of acceleration required in such higher load running is fulfilled.

IPC 8 full level

B60L 15/20 (2006.01)

CPC (source: EP US)

B60L 7/14 (2013.01 - EP US); **B60L 15/20** (2013.01 - US); **B60L 15/2009** (2013.01 - EP US); **B60L 50/51** (2019.01 - EP US); **B60L 2240/12** (2013.01 - EP US); **B60L 2240/421** (2013.01 - EP US); **B60L 2240/423** (2013.01 - EP US); **B60L 2250/28** (2013.01 - EP US); **B60L 2270/145** (2013.01 - EP US); **B60W 50/087** (2013.01 - EP US); **B60W 2710/083** (2013.01 - EP US); **Y02T 10/64** (2013.01 - EP US); **Y02T 10/70** (2013.01 - EP US); **Y02T 10/72** (2013.01 - EP US)

Cited by

EP3042800A4; CN108715139A; US9855858B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2578439 A1 20130410; **EP 2578439 A4 20171018**; **EP 2578439 B1 20210217**; CN 102892618 A 20130123; CN 102892618 B 20150513; JP 2011250647 A 20111208; JP 5516081 B2 20140611; US 2013124024 A1 20130516; US 9002556 B2 20150407; WO 2011152128 A1 20111208

DOCDB simple family (application)

EP 11789538 A 20110414; CN 201180024171 A 20110414; JP 2010123779 A 20100531; JP 2011059251 W 20110414; US 201113700356 A 20110414